Control#: D4-300-015-1

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FACILITY STATUS CHANGE FORM

Date Submitted:	Area:	Control #:
August 1, 2013	300 Area	D4-300-015-1
Originator:	**Facility ID:**	
Chris Strand	328, 328A, and 328BA	
Phone:	**Action Memorandum:**	
554-2720	Action Memorandum #3	

This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- ☐ All D4 operations required by action memo complete.
- ☒ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:
Deactivation: Utility isolations were completed on the facility prior to beginning removal actions.

Decontamination and Decommissioning: The following hazardous materials were removed prior to demolition; oils, asbestos containing materials, mercury, and Freon.

Demolition: Demolition of the above-grade structures was completed in January 2006 with building debris disposed of at ERDF. Demolition of the slabs and foundations for all three facilities are deferred because of interference imposed by immediately adjacent active utilities supporting long-term retained facilities (e.g., 325 Building).

Description of Deferral (as applicable):
Demolition of the slabs and foundations for all three facilities are deferred because of interferences imposed by immediately adjacent and active utilities supporting long-term retained facilities (e.g., 325 Building).

Section 2: Underlying Soil Status

- ☐ No waste site(s) present. No additional actions anticipated.
- ☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.

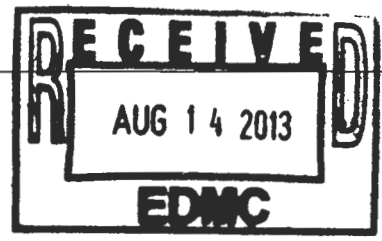
  Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:
The 328, 328A, and 328BA slabs and below-grade foundations remain in place and are within the 300 Area posted URMA. No Industrial Hygiene postings remain.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):
300-102, rejected UIC remains on the north side of the 328 slab.
300-RRLWS, 300-RLWS, 300-214, and 300-15 piping segments run adjacent to the southern and western edges of the building foundations.

Section 3: List of Attachments

1. Facility Information (building history and characterization).
2. Project photographs.
3. GPERS surveys.



300 FF-2

FACILITY STATUS CHANGE FORM

DOE-RL	Date 8/7/13
Lead Regulator ☒ EPA ☐ Ecology	Date Aug 7 2013

DISTRIBUTION:

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FR Engineering: Eric Ison, L1-13
FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Building History:

The 328 Engineering Services and Safety Shop was originally known as the Mechanical Development Building when it was constructed during the 1952-53 expansion of the 300 Area. It was a rectangular shaped building with a bolted steel frame, smooth steel exterior wall panels, and built up gable roof. The 328 shop was known for its fabrication of specialized development equipment, and providing craft and equipment services, for the laboratories located in Buildings 325, 326, 327, and 329. The 328 Building and its annex were constructed to replace the wartime 3717 Instrument Shop and the two 3722 Shops rendered obsolete in 1952 by the specialized needs of the radiochemistry, radiometallurgy and physics laboratories.

The boiler annex (BA) was a pre-engineered metal building on a concrete slab. The BA was built in the 1997 to 1998 timeframe. The 328BA was built to supply steam to the 328 Building. The facility used a natural gas powered package boiler to generate the steam.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 328, 328A, and 328BA Buildings. Table 2 summarizes the contaminants of concern for facility demolition and the associated determination of no impact to the soil.

Table 1. Summary of Samples Collected

Type	Quantity	Method Detection Limits	Results
Radiological Scoping surveys and Tritium Smears	509 Internal and External Surveys 13 Tritium Smears	Beta-gamma – 1,000 removable/ 5,000fixed [a] Alpha – 20 removable/ 100 fixed [a] 10,000 removable tritium [a]	All results were below method detection limits
Industrial Hygiene Scoping Surveys for Beryllium (Air and Wipe Samples)	307 wipe samples 4 Air Samples	Beryllium – Wipe Samples- 0.01 µg/100cm^2 Air Samples- 0.02 µg/sample	One Be wipe sample result was above the action level of of 0.2 µg/100 cm^2 All air sample results were below the method's limit of detection
Industrial Hygiene Post Decontamination Sampling for Beryllium (Bulk and Wipe Samples)	23	Beryllium – Bulk Samples- 0.02 µg/sample Wipe Samples- 0.01 µg/100cm^2	All fifteen bulk samples were measured at levels below the local background release criterion of 1.81 µgram/gram. All eight wipe samples were measured to have surface levels less than the action level of 0.2 µg/100 cm2
Asbestos – Thermal System Insulation and	77	<1% weight	58 - below detection limits 6 - less than 1% asbestos

Miscellaneous Material			13 - found to be at levels requiring removal
[a] – dpm/100 cm^2			

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Determination of no impact to the soil
Radionuclides	Due to the facility history, the demolition was performed under radiological controls. After the building was demolished, the slab was surveyed and downposted to URMA (Underground Radioactive Material Area).
Class II non-friable Asbestos	Demolition was performed in accordance with 40 CFR 61.145 (c) and 40 CFR 61.150

Attachment 2: Project Photographs

328 Building Complex before Demolition

328 Building Complex Site after Demolition